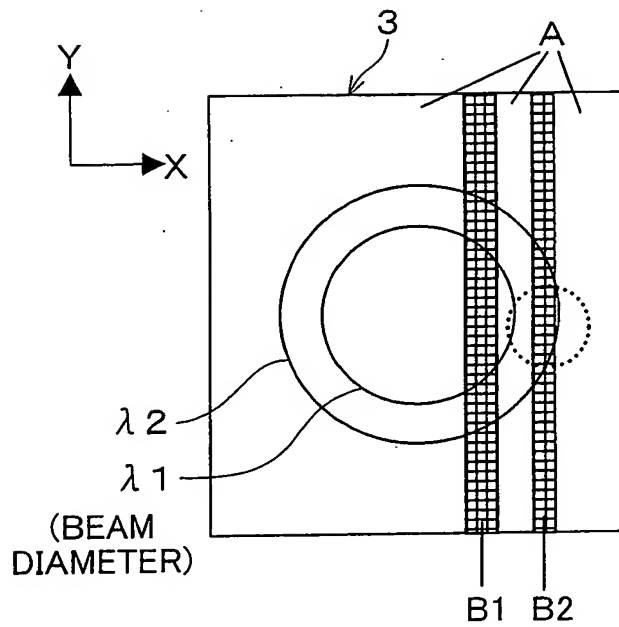
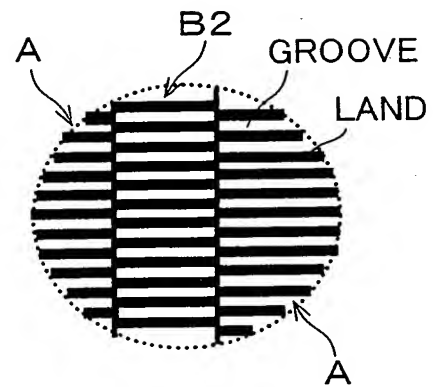


FIG. 1 (a)



REGION B WHOSE GRATING GROOVES  
ARE SHIFTED BY 1/2 PITCH  
(HATCHED PORTION)

FIG. 1 (b)



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FIG. 2 (a)

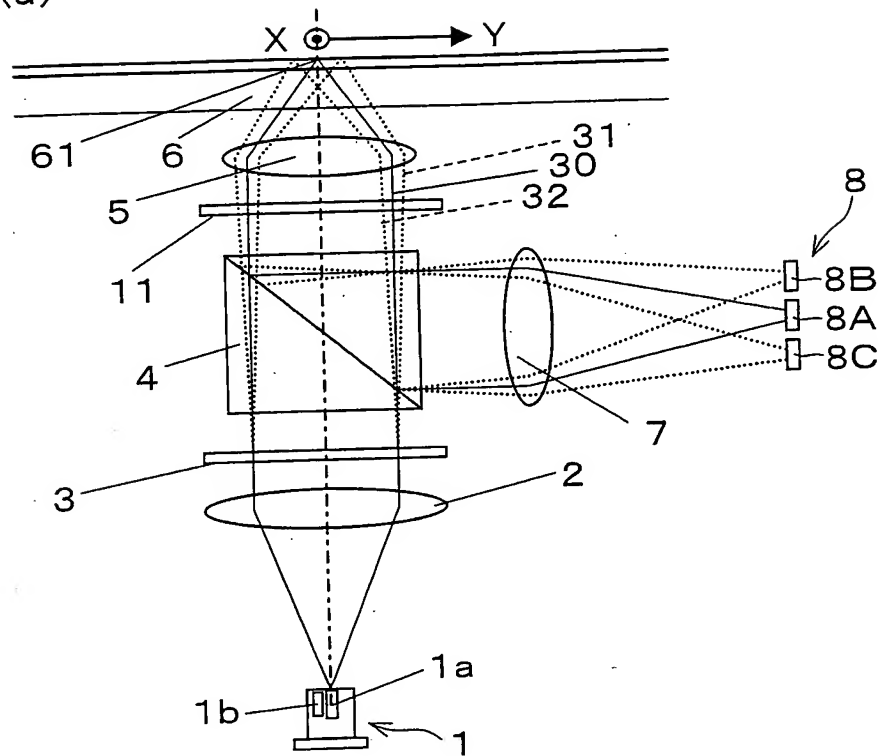
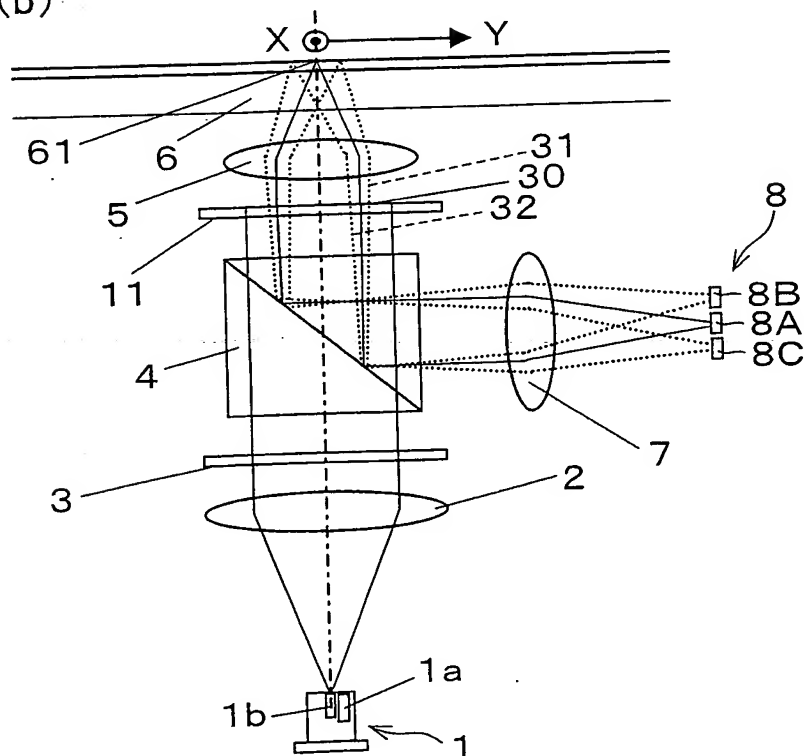


FIG. 2 (b)



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FIG. 3

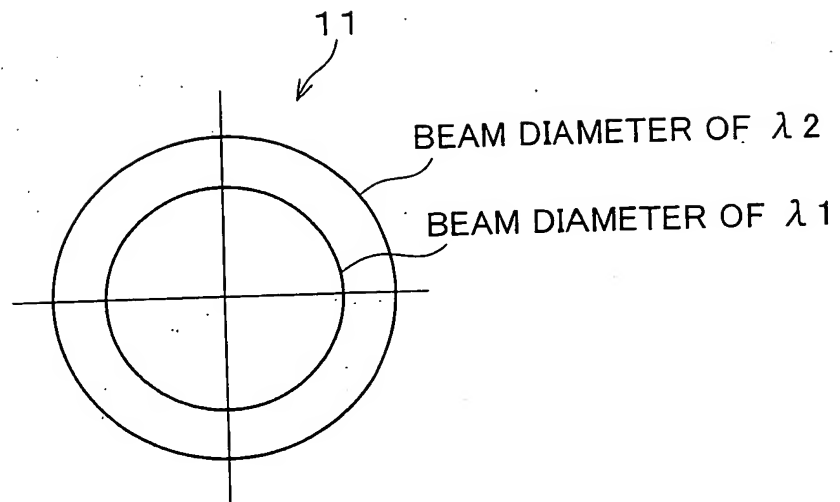


FIG. 4 (a)

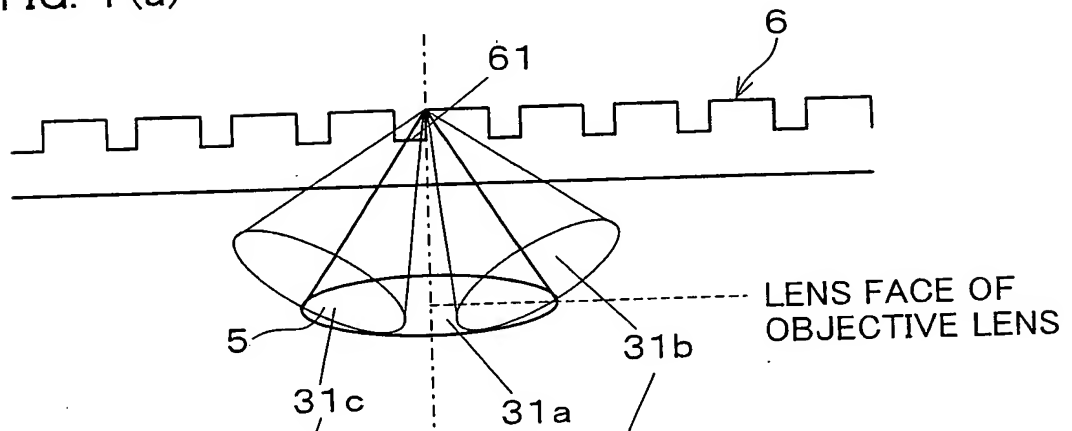
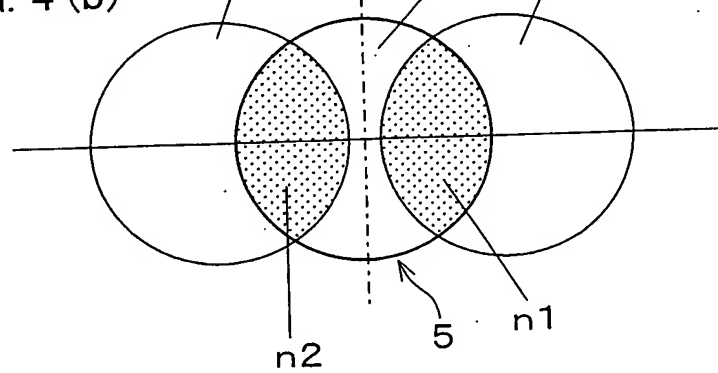


FIG. 4 (b)



DIFFRACTION PATTERN ON LENS  
FACE OF OBJECTIVE LENS

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FIG. 5 (a)

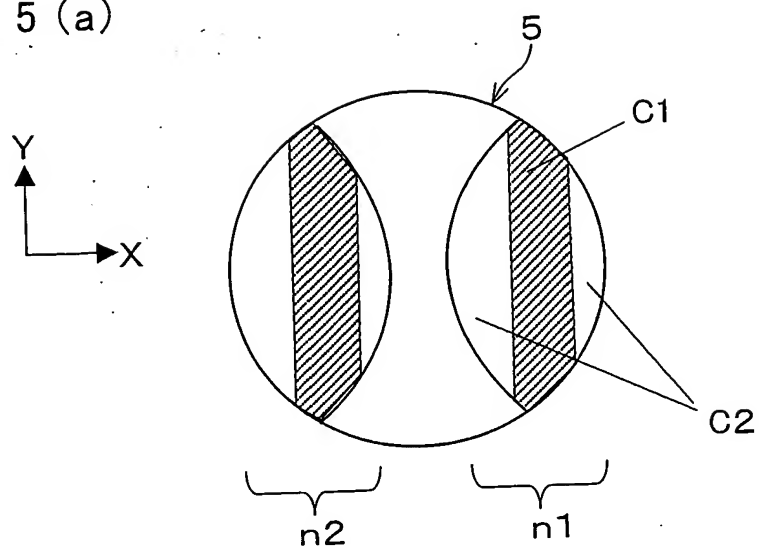
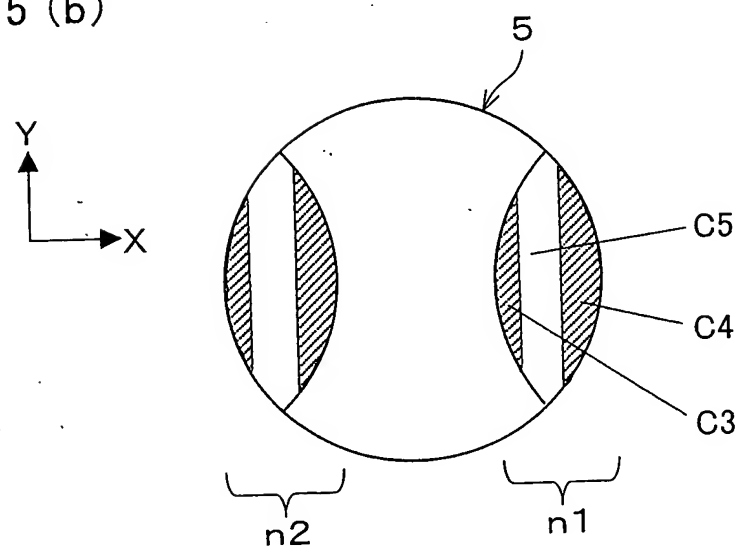
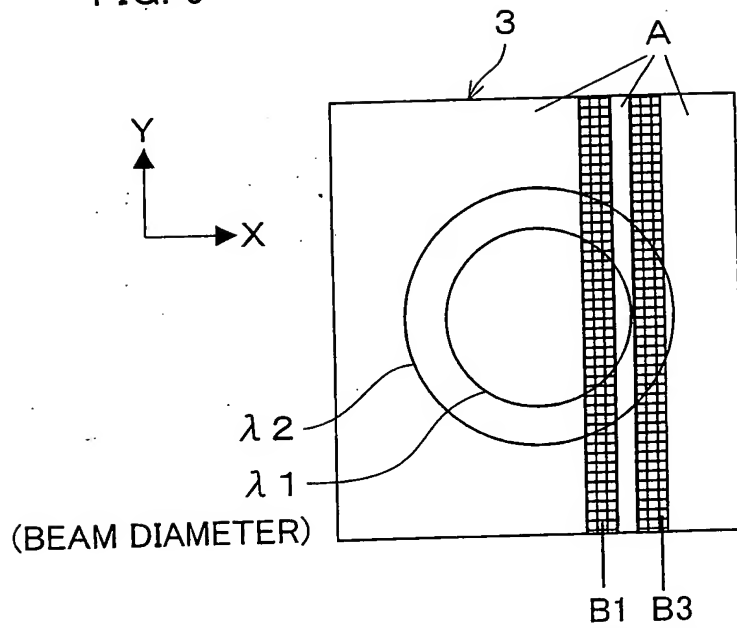


FIG. 5 (b)



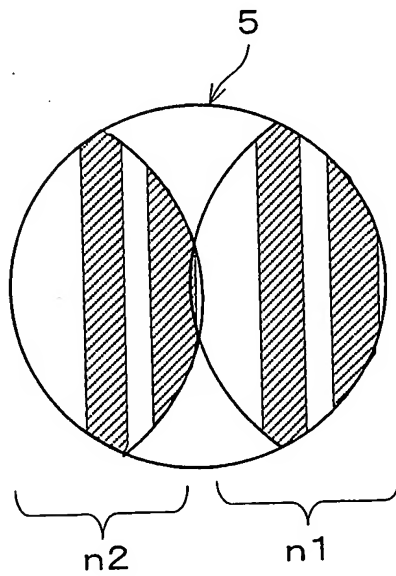
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FIG. 6



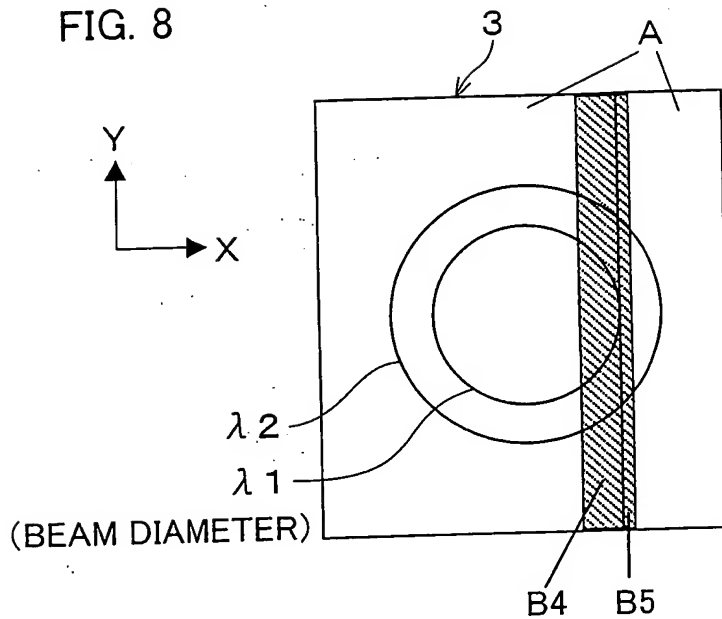
REGION WHOSE GRATING GROOVES  
ARE SHIFTED BY 1/2 PITCH  
(HATCHED PORTION)

FIG. 7



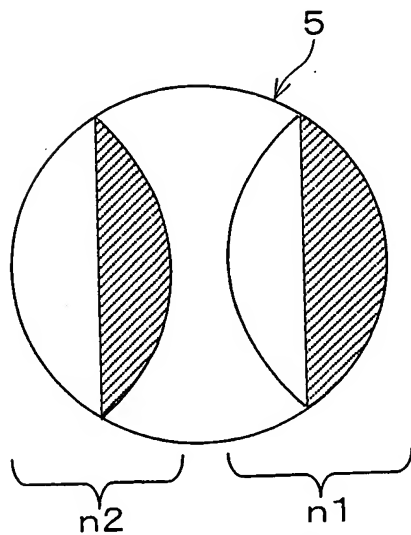
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FIG. 8



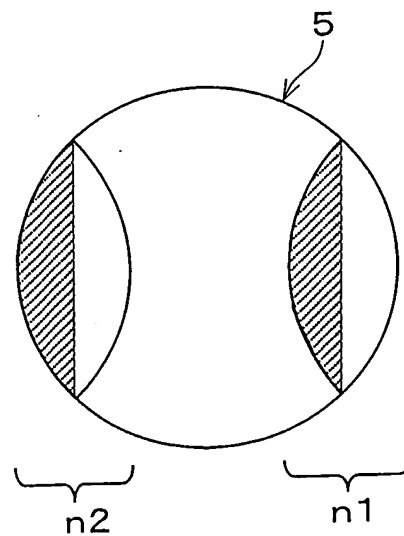
REGION WHOSE GRATING GROOVES  
ARE SHIFTED BY 1/2 PITCH  
(HATCHED PORTION)

FIG. 9 (a)



PUSH-PULL PATTERN OF  $\lambda 1$   
(HATCHED PORTIONS ARE  
PHASE SHIFT REGIONS)

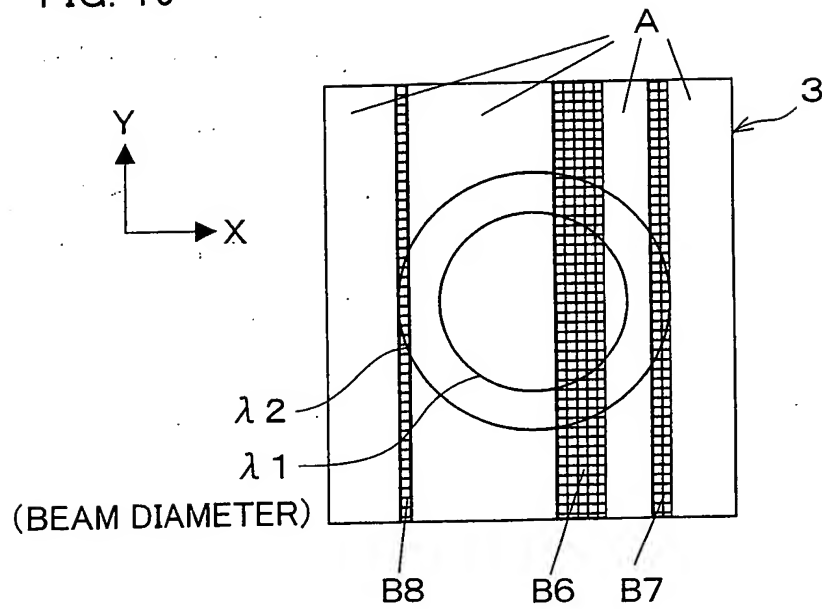
FIG. 9 (b)



PUSH-PULL PATTERN OF  $\lambda 2$

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FIG. 10



REGION WHOSE GRATING GROOVES  
ARE SHIFTED BY 1/2 PITCH  
(HATCHED PORTION)

FIG. 11

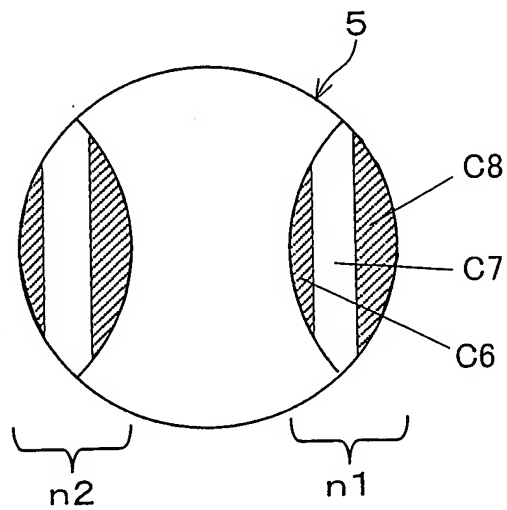
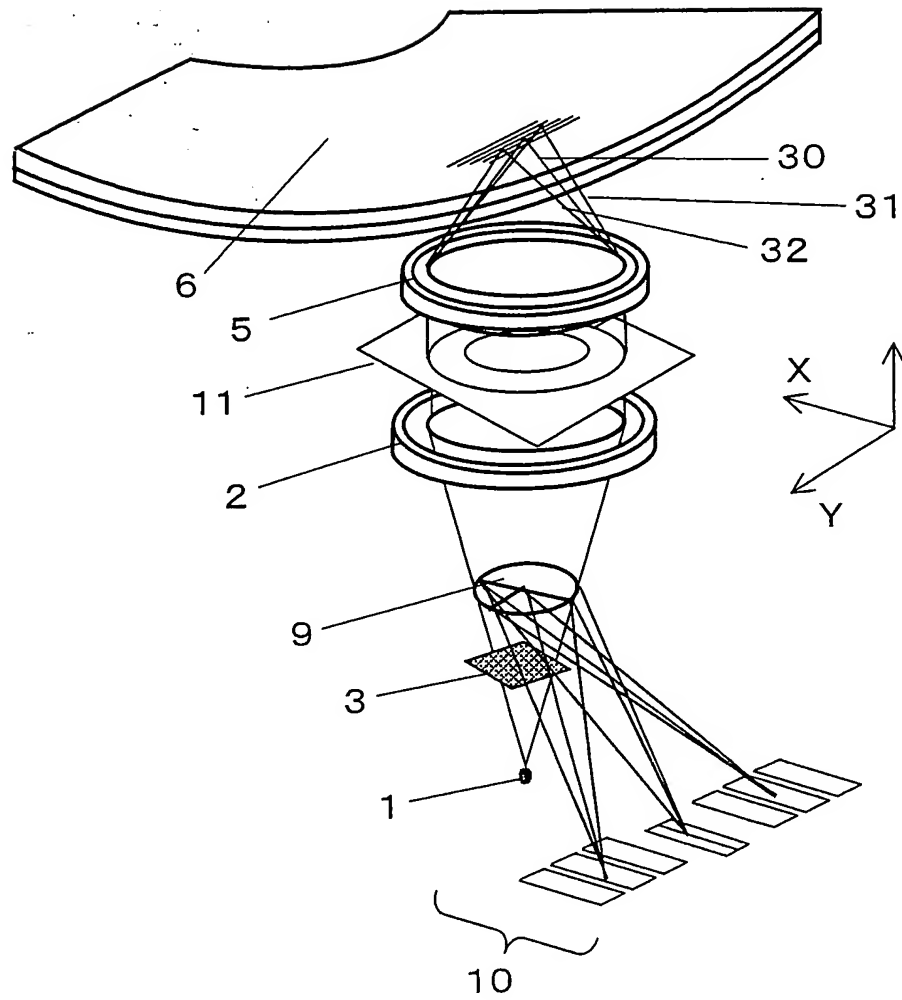


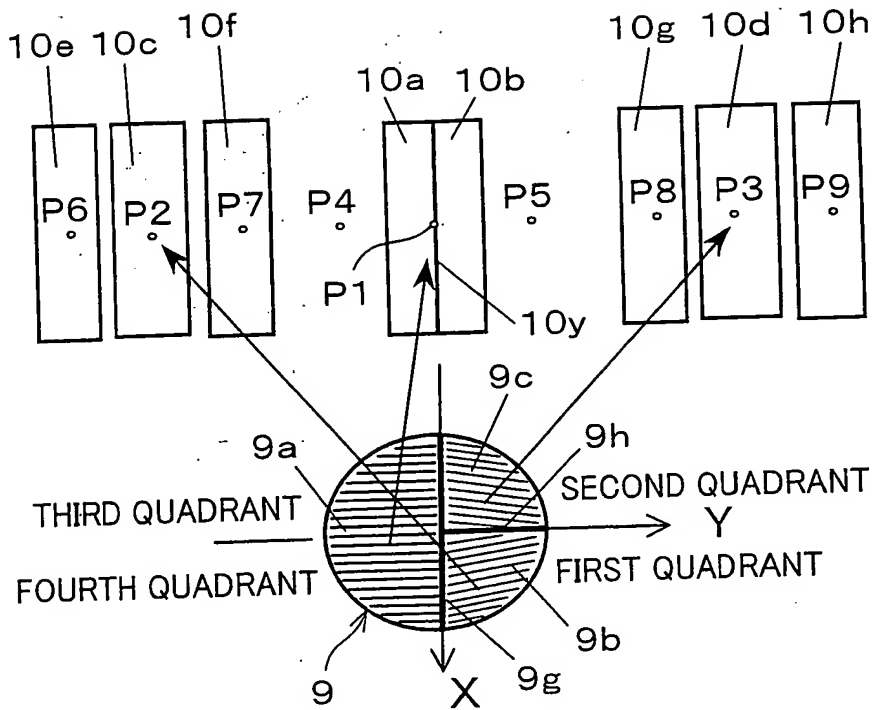
FIG. 12





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FIG. 13



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FIG. 14

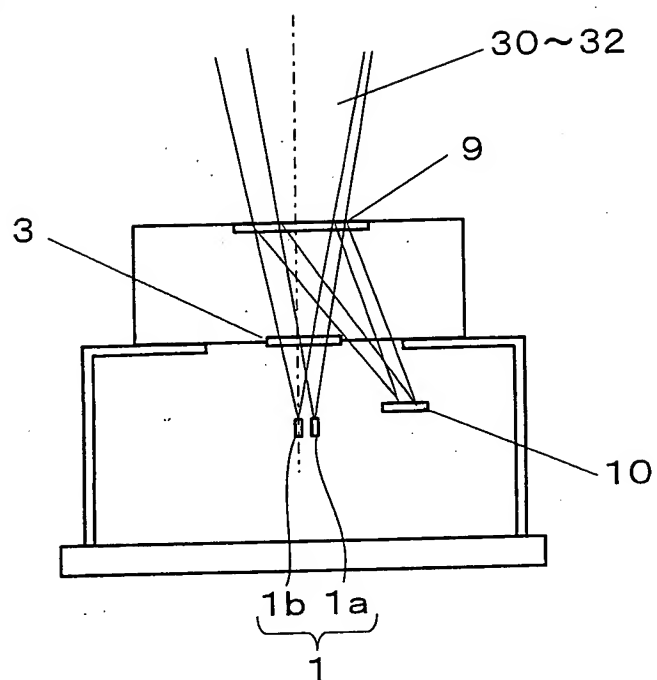
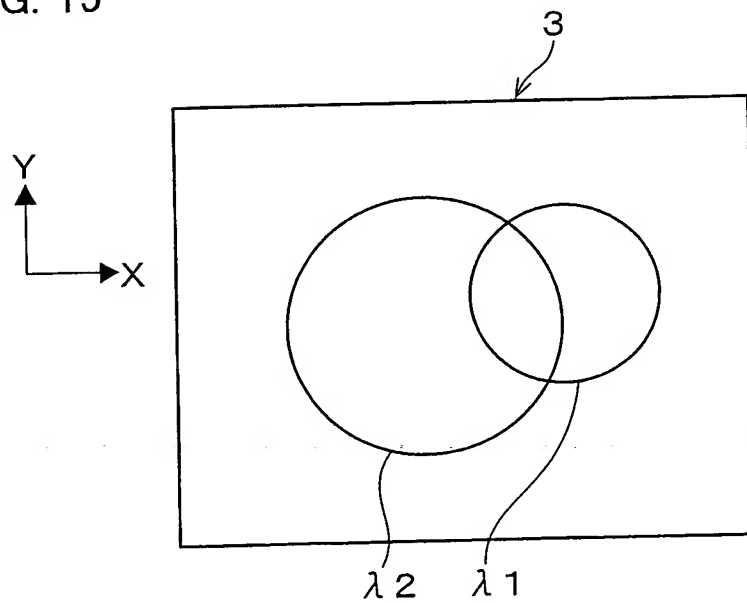


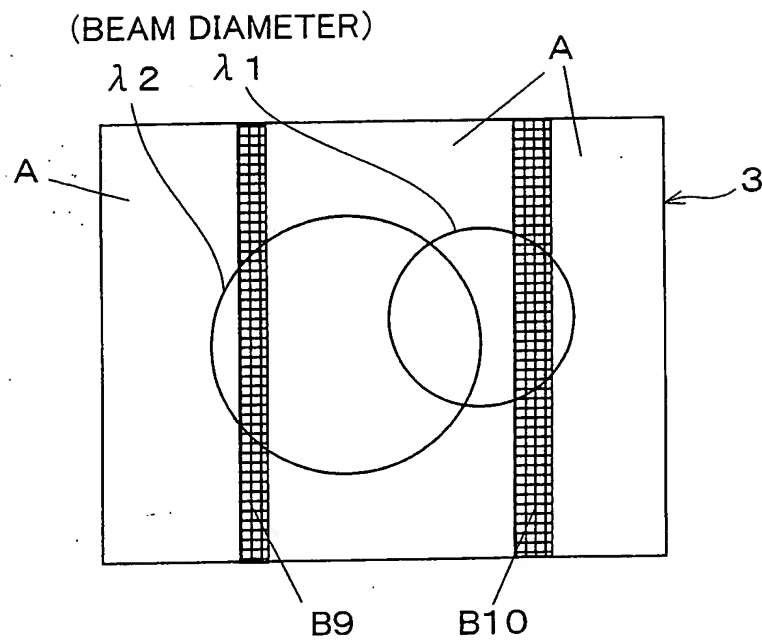
FIG. 15



BEAM DIAMETER ON GRATING

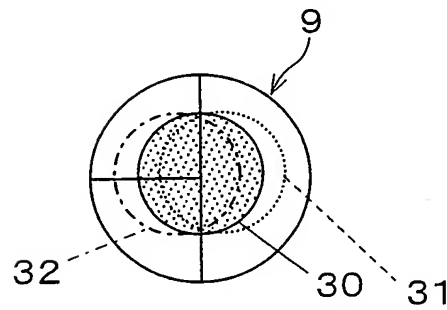
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FIG. 16



REGION B WHOSE GRATING GROOVES  
ARE SHIFTED BY 1/2 PITCH  
(HATCHED PORTION)

FIG. 17



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FIG. 18

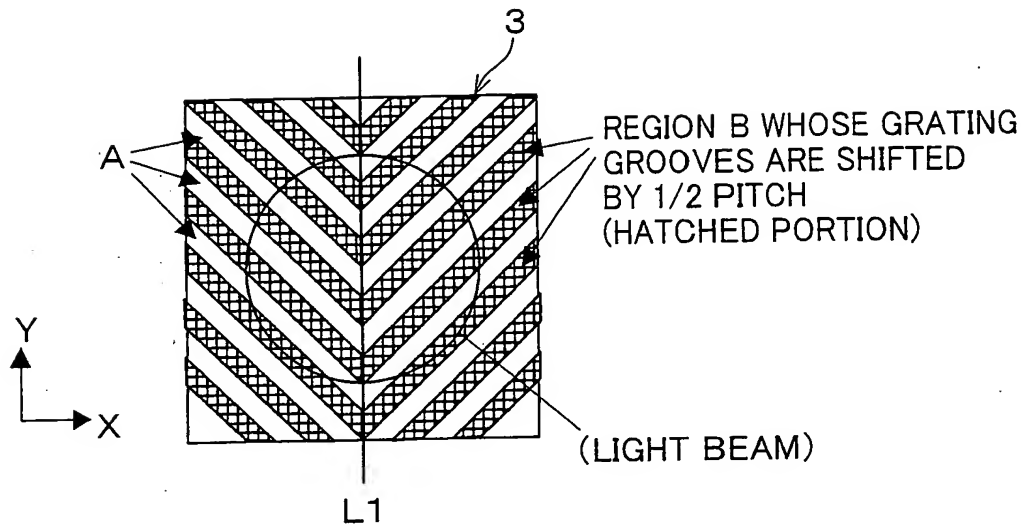


FIG. 19

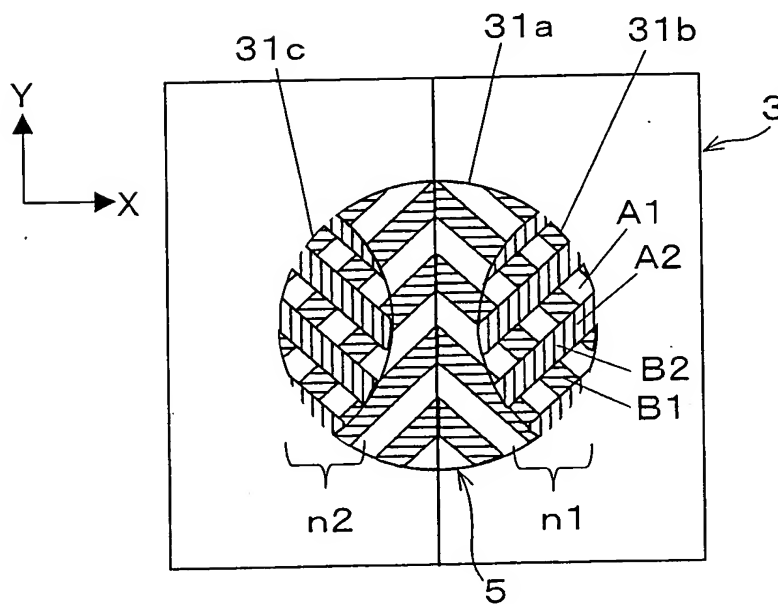


FIG. 20

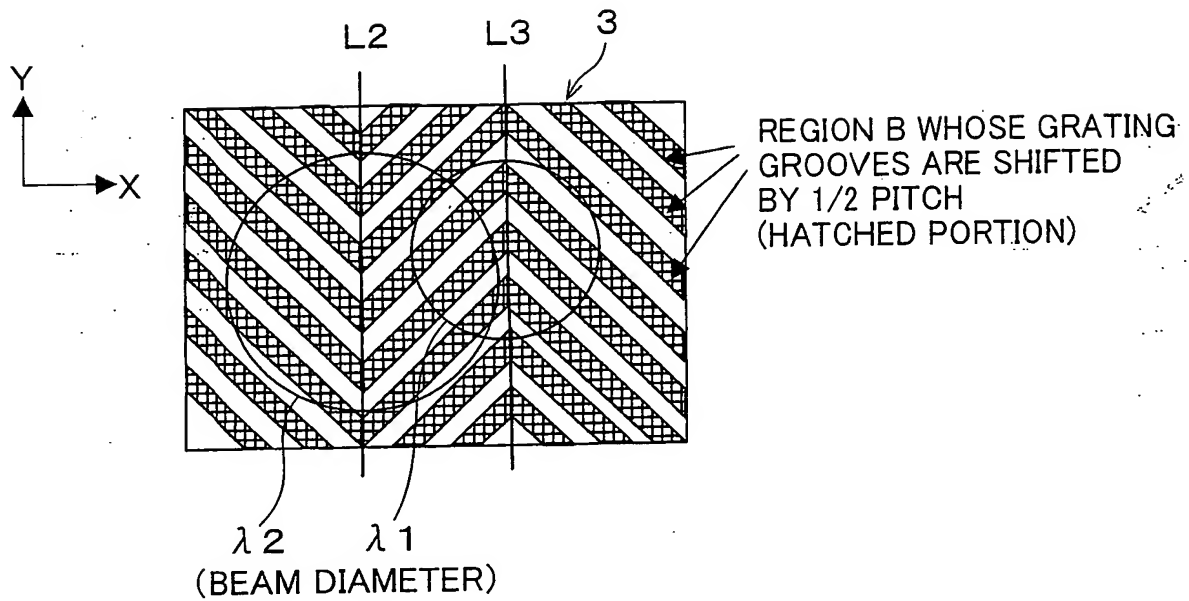
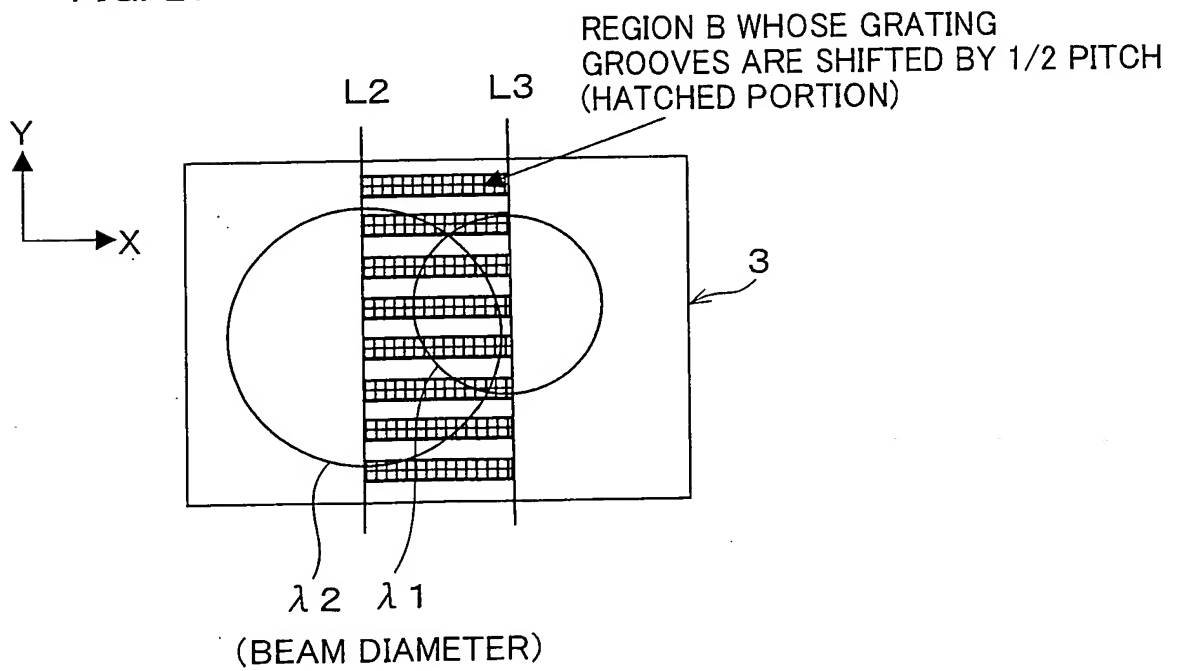
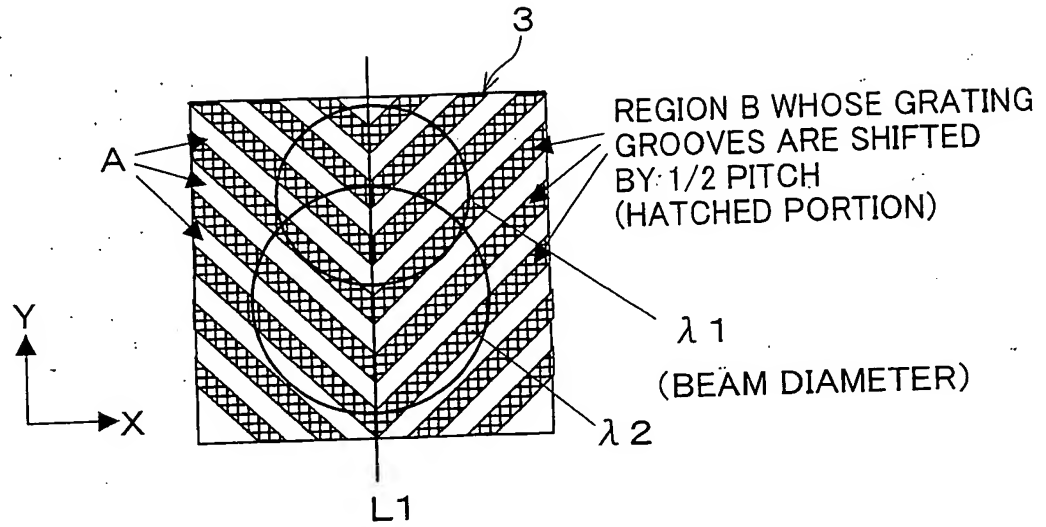


FIG. 21



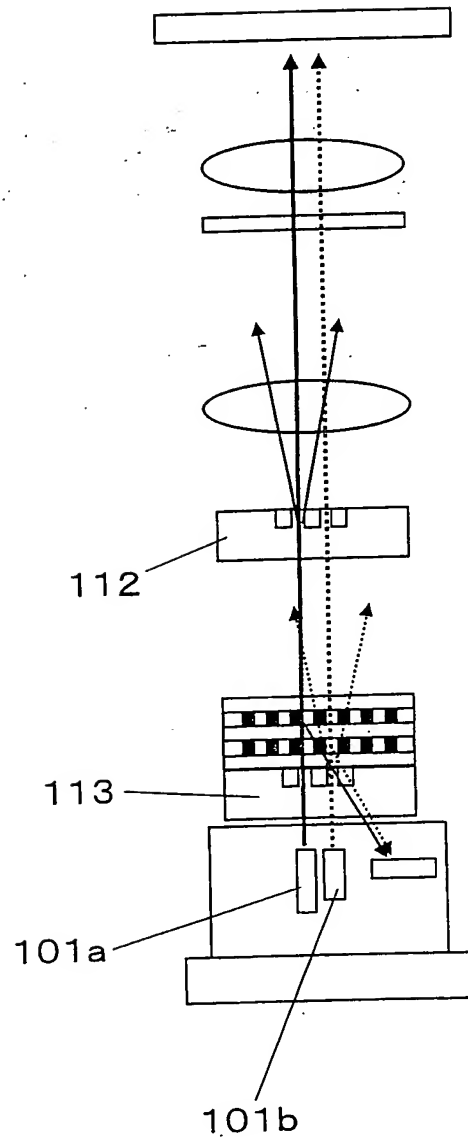
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FIG. 22



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FIG. 23



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FIG. 24 (a)

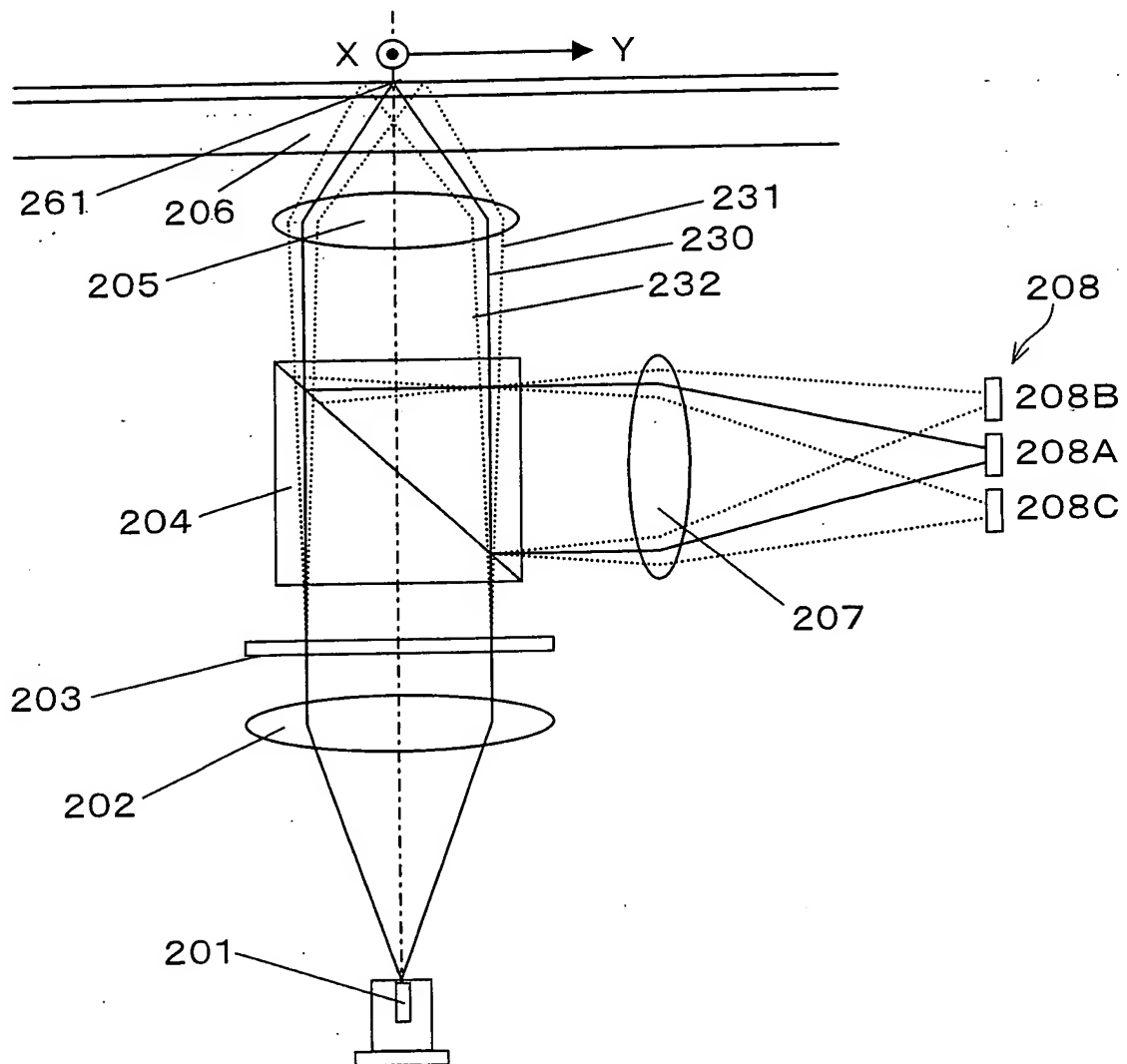


FIG. 24 (b)

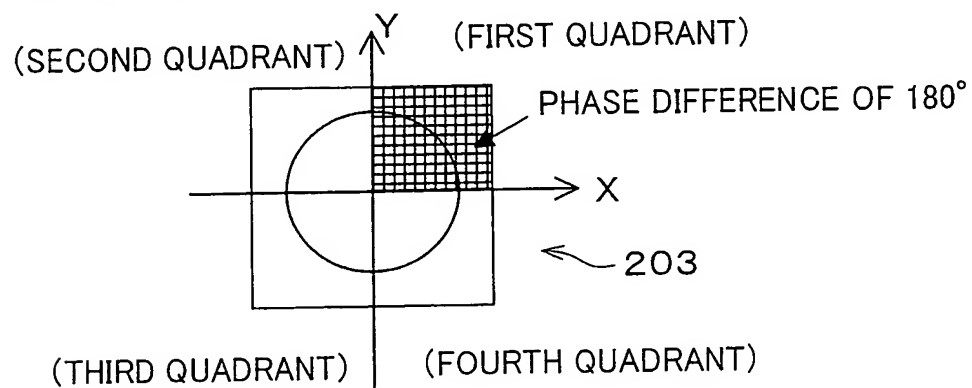




FIG. 25

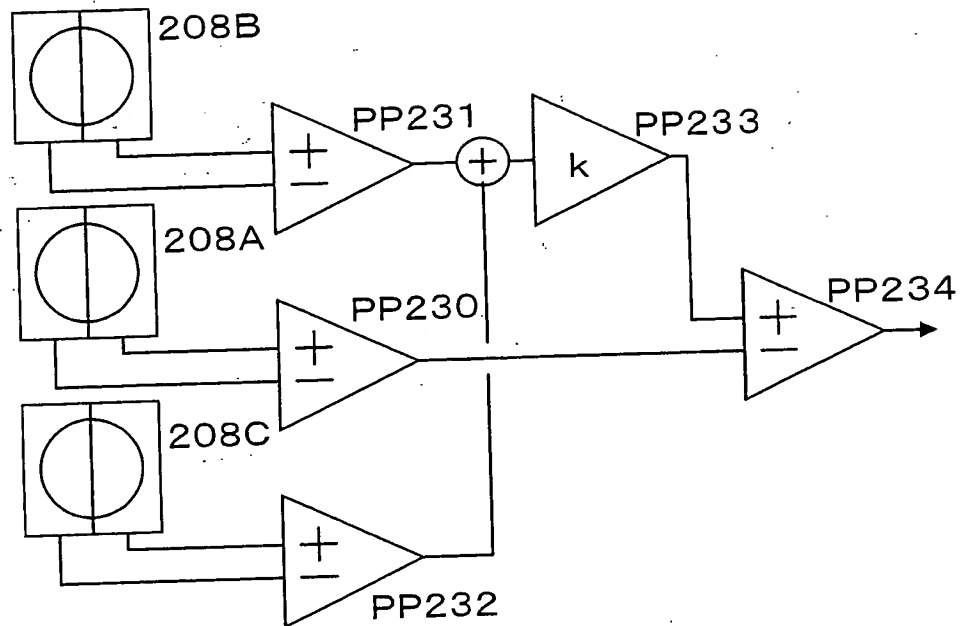


FIG. 26 (a)

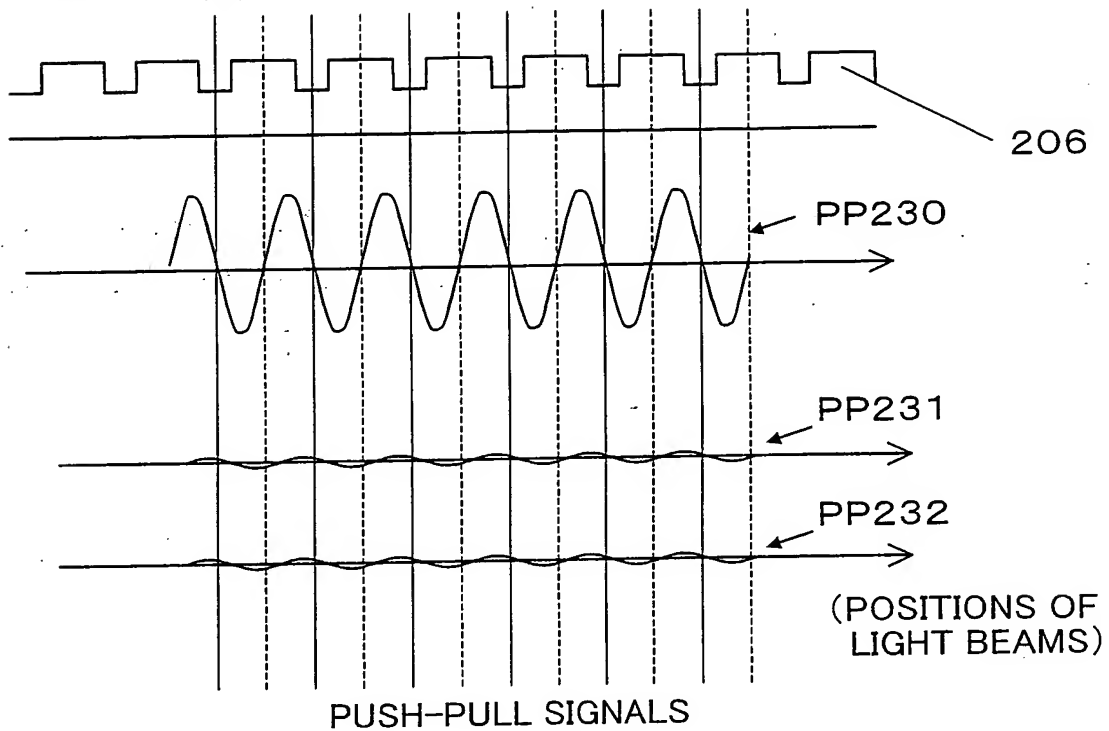


FIG. 26 (b)

